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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/749,494	12/31/2003	Zaher Al-Sheikh	ZAS-10402/03	1224
25006	7590	07/21/2005	EXAMINER	
GIFFORD, KRASS, GROH, SPRINKLE & CITKOWSKI, P.C PO BOX 7021 TROY, MI 48007-7021			HUNNINGS, TRAVIS R	
			ART UNIT	PAPER NUMBER
			2632	

DATE MAILED: 07/21/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/749,494

Applicant(s)

AL-SHEIKH, ZAHER

Examiner

Travis R. Hunnings

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 31 December 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-36 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-36 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 31 December 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)  | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## **DETAILED ACTION**

### ***Specification***

1. The disclosure is objected to because of the following informalities: on page 9, line 5, change the reference number '40' should be changed to '50'

Appropriate correction is required.

### ***Claim Objections***

2. Claims 26 and 27 are objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim.

Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. Claims 26 and 27 include the limitation of a system (claim 27 further limits this to a global positioning satellite) providing geographic location information that is dependent on claim 25 which is dependent on claim 18 which includes the same limitation of a global positioning system providing geographic location information.

3. Claim 33 is objected to because of the following informalities: the claim is dependent on claim 31 that is a 'system' claim however claim 33 is a 'process' claim. The claim will be judged on merit as if it were dependent on the independent claim 32 which is also a 'process' claim. Appropriate correction is required.

***Claim Rejections - 35 USC § 112***

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

5. Claims 11 and 23 recite the limitation "said video camera" in line 1. There is insufficient antecedent basis for this limitation in the claim.

6. Claim 18 recites the limitation "the geographic location information" in line 2. There is insufficient antecedent basis for this limitation in the claim.

7. Claim 25 recites the limitation "the vehicle portal" in line 1. There is insufficient antecedent basis for this limitation in the claim.

8. Claim 28 recites the limitation "the cellular communication transmitter" in line 1. There is insufficient antecedent basis for this limitation in the claim.

***Claim Rejections - 35 USC § 102***

9. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States

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only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

10. Claims 1-6, 8-10, 12, 13, 19, 23, 24, 28, 32, 33, 35 and 36 are rejected under 35 U.S.C. 102(e) as being anticipated by McCarthy et al. (McCarthy; US Patent 6,768,420).

Regarding claim 1, McCarthy discloses *Vehicle Compartment Occupancy*

*Detection System* that has the following claimed limitations:

The claimed mammalian body detector sensing a confined space is met by the electric field sensor for detecting if a person is located inside the vehicle (column 2, lines 14-18);

The claimed thermocouple measuring a temperature within the confined space relative to a thermal threshold is met by the temperature being measured by a thermocouple having a threshold of dangerous temperature (column 2, lines 33-58 and column 7, lines 21-28);

The claimed alarm subsystem communicating to a remote location that the temperature in the space is beyond the thermal threshold and an occupant is within the space subsequent to a condition precedent is met by the device communicating to a remote receiver when a person is detected in the space and the temperature is above the threshold thereby indicating a dangerous situation (abstract, column 2, lines 5-10 and 33-58 and column 7, lines 30-52).

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Regarding claim 2, the claimed confined space being selected from the group consisting of a building structure, a vehicle passenger compartment and a vehicle trunk is met by the space being detected being a vehicle compartment or trunk (column 1, lines 64-67).

Regarding claims 3 and 4, the claimed alarm subsystem being a wireless transmitter is met by the device communicating through a cellular phone that inherently has a wireless transmitter (column 7, lines 30-52).

Regarding claim 5, the claimed alarm subsystem comprising an auditory alarm indicating that the temperature in the space exceeds a thermal threshold and the occupant is within the space is met by the device beeping the vehicle's horn when it detects a dangerous condition indicating a high temperature and a person occupying the space (column 7, lines 30-52).

Regarding claim 6, the claimed condition precedent is the temperature within a vehicle confined space being above the threshold for a predetermined amount of time with the occupant therein is met by the system monitoring the temperature and indicating a dangerous condition if the temperature has been above the threshold level for a certain time period (column 8, lines 27-60).

Regarding claim 8, the claimed alarm subsystem having a burglar detection mode that communicates an emergency signal to a remote location upon detecting the occupant within the space and independent of the temperature being beyond the thermal threshold is met by the intrusion sensor being used to detect break-in attempts (column 9, lines 41-59).

Regarding claims 9, 10 and 12, the claimed system further comprising a video camera activated to collect an image as part of the emergency signal is met by the video camera (column 8, lines 61-67) and sending an image of the compartment to an operator (column 7, lines 30-52).

Regarding claim 13, the claimed mammalian body detector comprising a type of sensor selected from the group consisting of: infrared, vibration and carbon dioxide is met by the sensor being used to detect compartment occupancy being a carbon dioxide detector (column 8, lines 61-67).

Regarding claim 19, McCarthy discloses the following claimed limitations:

The claimed mammalian body detector sensing a vehicle compartment is met by the electric field sensor for detecting if a person is located inside the vehicle (column 2, lines 14-18);

The claimed thermocouple measuring a temperature within the vehicle relative to a thermal threshold is met by the temperature being measured by a thermocouple

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having a threshold of dangerous temperature (column 2, lines 33-58 and column 7, lines 21-28);

The claimed switch automatically opening a vehicle portal in response to the temperature within the vehicle compartment exceeding the thermal threshold and said detector sensing an occupant within the vehicle compartment is met by the device opening/rolling down the windows of the vehicle when a dangerous condition is detected (column 7, lines 30-52);

The claimed alarm subsystem automatically communicating to a remote location that the temperature in the vehicle compartment is beyond the thermal threshold and the occupant is within the vehicle compartment is met by the device communicating to a remote receiver when a person is detected in the space and the temperature is above the threshold thereby indicating a dangerous situation (abstract, column 2, lines 5-10 and 33-58 and column 7, lines 30-52).

Regarding claim 23, the claim is interpreted and rejected as claim 11 stated above.

Regarding claim 24, the claim is interpreted and rejected as claim 12 stated above.

Regarding claim 28, the claimed cellular communication transmitter transmits a signal suitable for triangulation to locate the vehicle compartment is met by the device



transmitting a cellular signal that is inherently able to be triangulated (column 7, lines 30-52).

Regarding claim 32, McCarthy discloses the following claimed limitations:

The claimed process of disposing a mammalian body detector in the space is met by the electric field sensor being placed in a vehicle compartment for detecting the occupancy of the space (column 2, lines 14-18);

The claimed process of sensing a temperature within the space is met by the thermocouple sensing the temperature within the vehicle (column 2, lines 33-58 and column 7, lines 17-21);

The claimed process of comparing the temperature with a pre-selected threshold temperature is met by the temperature being compared to a threshold (column 7, lines 21-28);

The claimed process of activating a wireless transmitter alarm subsystem in response to a condition precedent of a failure to reset an auditory alarm or the temperature remaining above the threshold with the occupant present for a pre-selected amount of time is met by the device communicating the warning of a dangerous condition to a remote receiver after a time period (abstract, column 2, lines 5-10 and 33-58, column 7, lines 30-52 and column 8, lines 27-60).

Regarding claim 33, the claimed process further comprising the step of opening a portal in the space when the occupant is detected within the space and the temperature

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therein is beyond the threshold for the pre-selected amount of time is met by the device opening/rolling down the windows of the vehicle when a dangerous condition has existed for a specific amount of time (column 7, lines 30-52 and column 8, lines 27-60).

Regarding claim 35, the claim is interpreted and rejected as claim 28 stated above.

Regarding claim 36, the claimed process further comprising the step of disposing a video camera in the space and transmitting a video image by way of said wireless transmitter is met by the video camera taking pictures that are sent wirelessly to a remote location (column 8, lines 61-67 and column 7, lines 30-52).

### ***Claim Rejections - 35 USC § 103***

11. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

12. Claims 11 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over McCarthy.

Regarding claim 11, it would have been obvious to start the video camera when the temperature exceeds the threshold and an occupant is detected in order to capture the images to be sent to the remote location (column 7, lines 30-52).

Regarding claim 21, it would have been obvious to activate both the vehicle horn and open/roll down the windows of the vehicle when a dangerous condition is detected to both alert people nearby that there is a problem and to provide some fresh air and temperature relief to those inside the vehicle (column 7, lines 30-52).

13. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over McCarthy in view of Ford (US Patent 6,756,896).

Regarding claim 7, McCarthy discloses all of the claimed limitations except for the claimed condition precedent is failure to reset the auditory alarm within a pre-selected amount of time. Ford discloses *Distributed Residential Alarm System And Method Therefor* that teaches originating a localized alarm at a location in response to an emergency condition being detected and then if after a certain pre-determined period of time the localized alarm is not reset, the system alerts other remote units that there is an alarm condition at the localized location (abstract, figure 4). Modifying the alert system of McCarthy to provide a localized warning, such as beeping the car horn, and if the alarm has not been stopped within a pre-determined period of time then alerting the remote user would help to eliminate some false alarms and save the battery of the

remote receiver. Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the device disclosed by McCarthy in view of Ford to have the condition precedent be failure to reset the auditory alarm within a pre-selected period of time.

14. Claims 14, 16, 29 and 31 are rejected under 35 U.S.C. 103(a) as being unpatentable over McCarthy in view of Wilkinson (US Patent 5,892,447).

Regarding claims 14 and 29, McCarthy discloses the remote receiver being a user's cellular telephone (column 7, lines 30-52) however McCarthy does not specifically disclose the receiver comprising:

- A housing;

- A wireless antennae for receiving an emergency signal from said alarm subsystem;

- A display for providing the emergency signal in human recognizable form;

- A digital memory for storing images;

- A data transmission portal; and

- A receiver battery power supply.

Wilkinson discloses *Portable Cellular Alert System* that teaches a cellular phone with a housing as seen in figure 10; a wireless antennae for receiving both emergency signals and cellular communication signals as seen by element 405 in figure 2 (column 2, lines 11-31); a display for providing the user with a display of the date and time the

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signal was received (column 2, lines 65-67); a memory for storing digital data as seen by element 407 in figure 2 and it would have been obvious to one of ordinary skill in the art to store anything in the memory including images; a cellular telephone to transmit to a remote location as seen by element 415 in figure 2; and a battery to provide power to the electronics of the unit (column 2, lines 55-57). Modifying the cellular receiver of McCarthy to have the specific details as taught by Wilkinson would provide the user with a device that has all of the needed components to allow the receiver to work within the system. Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the device disclosed by McCarthy according to the teachings of Wilkinson to have a receiver with the above specifications.

Regarding claims 16 and 31, it would have been obvious that the housing of the cellular phone contains a bar code because every cellular phone is provided with a manufacturer's bar code upon assembly in order to facilitate tracking and identification of the cellular phones.

15. Claims 14, 15, 29 and 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over McCarthy in view of Brinkmeyer et al. (Brinkmeyer; US Patent 5,940,007).

Regarding claims 14 and 29, McCarthy discloses a key FOB that receives indication from the device that a dangerous condition exists at the vehicle, however

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McCarthy does not specifically disclose the specific makeup of the key FOB as claimed in claim 14. Brinkmeyer discloses *Remote Control System For Motor Vehicle Related Devices* that teaches the specific makeup of the key FOB having a housing as seen in figure 2, a wireless antennae for receiving an emergency signal from a vehicle as seen in figure 1 (column 5, lines 17-40), a display for providing user readable information as seen in figure 2, it would be obvious for the device to include memory to store vehicle information and icon images associated with the display, a data transmission device for transmitting information to the vehicle (column 5, lines 17-40) and it would have been obvious to include a battery to provide power to all electronic components of the key FOB. Modifying the key FOB of McCarthy according to Brinkmeyer would give the user an existing device that is known to work and be able to communicate with a vehicle system for sending and receiving information regarding the vehicle. Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the device disclosed by McCarthy according to the teachings of Brinkmeyer to have a key FOB according to the above specifications.

Regarding claims 15 and 30, McCarthy and Brinkmeyer disclose all of the claimed limitations. The claimed receiver housing having an aperture engaging a key ring is met by the key FOB as shown in figure 2 and it is well known that key FOBs are built to engage key rings.

16. Claims 17 and 34 are rejected under 35 U.S.C. 103(a) as being unpatentable over McCarthy in view of Barnas et al. (Barnas; US Patent 6,642,838).

Regarding claims 17 and 34, McCarthy discloses all of the claimed limitations except for the claimed system further comprising location information communicated to the remote location by said alarm subsystem. Barnas discloses *Safety System For Automobiles* that teaches using a GPS (Global Positioning System) to send location information of the vehicle to a remote location when a dangerous condition is detected at the vehicle (abstract and column 4, lines 37-49). Providing location information in the form of GPS information to a remote receiver would allow the user to quickly find the vehicle when a dangerous condition is detected. Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the device disclosed by McCarthy according to the teachings of Barnas to transmit location information in the form of GPS information to a remote location when a dangerous condition is detected.

17. Claims 18, 20, 22 and 25-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over McCarthy in view of Wilkinson and further in view of Barnas.

Regarding claim 18, the claim is interpreted and rejected as McCarthy and Wilkinson in view of Barnas using the same reasoning as laid out in claim 17 stated above.

Regarding claim 20, the claimed alarm subsystem comprising a wireless transmitter is met by McCarthy using a cellular phone to transmit and receive information regarding the vehicle status (column 7, lines 30-52).

Regarding claim 22, the claimed system further comprising a video camera is met by McCarthy having a video camera (column 8, lines 61-67).

Regarding claim 25, the claimed system wherein the vehicle portal is selected from the group consisting of a window, sunroof, and trunk is met by the device of McCarthy opening/rolling down the windows of the vehicle (column 7, lines 30-52).

Regarding claims 26 and 27, the claims are interpreted and rejected as claim 17 stated above.

### ***Conclusion***

18. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Flick et al. *Vehicle Control System With Selectable Vehicle Style Image And Associated Methods*, US Patent Publication 2004/0049325;

Challa et al. *System, Method, And Apparatus For Communicating Information Encoded In A Light-Based Signal Using A FOB Device*, US Patent 6,877,665;



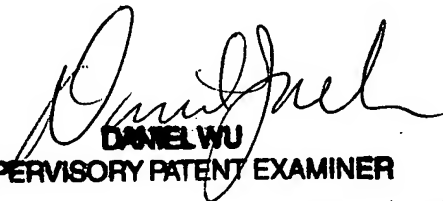
Turner et al. *Automotive Climate Control With Infra-red Sensing*, US Patent 5,518,176;  
Bone, Jr. *Liquid Crystal Dynamic Barcode Display*, US Patent 6,082,620;  
Robinson, *Multipurpose Wireless Video Alarm Device And System*, US Patent 6,433,683;  
Hyman, *Interior Vehicle Alert System*, US Patent Publication 2003/0169162.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Travis R. Hunnings whose telephone number is (571) 272-3118. The examiner can normally be reached on 8:00 am - 5:00 pm M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Daniel J. Wu can be reached on (571) 272-2964. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TRH

  
**DANIEL WU**  
**SUPERVISORY PATENT EXAMINER**  
7/16/05